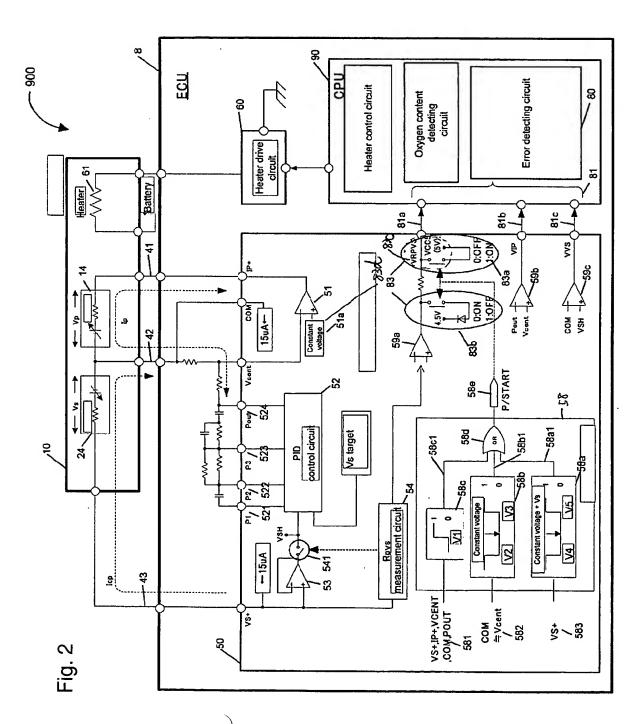


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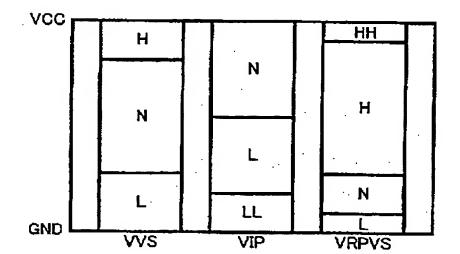
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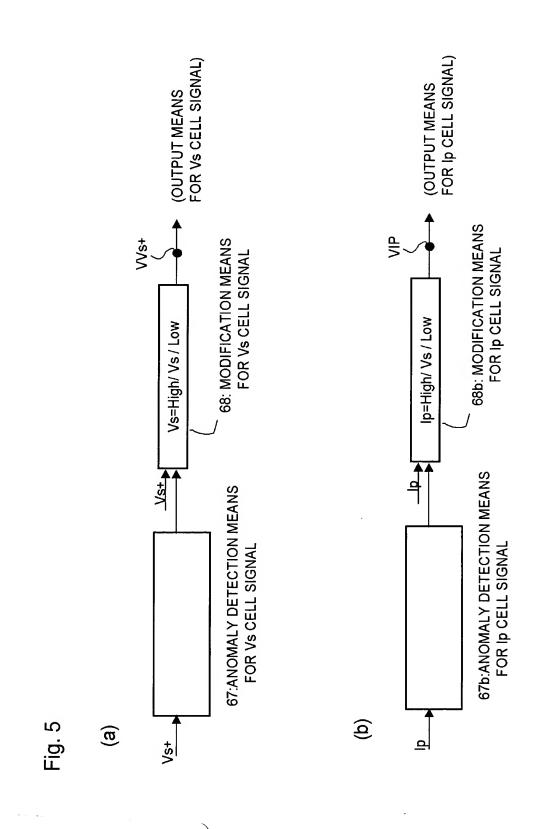
Fig. 3

WS	VIP	VRPVS	ANOMALY JUDGMENT IN LEAN REGION	ANOMALY JUDGMENT IN NON-LEAN REGION	
N	N	N	NORMAL	NORMAL	
N	N	L	OTHER ANOMALY	OTHER ANOMALY	
N	N	Н	OTHER ANOMALY	OTHER ANOMALY	
N	N	HH	OTHER ANOMALY	OTHER ANOMALY	
N	L	N	Ip+ BREAKAGE	NORMAL	
N	L	L	OTHER ANOMALY	OTHER ANOMALY	
N	L	Н	COM BREAKAGE	OTHER ANOMALY	
N	L	HH	COM BREARAGE	OTHER ANOMALY	
N	LL	N	OTHER ANOMALY NORMAL		
N	LL	L	OTHER ANOMALY OTHER ANOMALY		
N	LL	Н	OTHER ANOMALY	OTHER ANOMALY	
N	LL	НН	GROUND-SIDE SHORT CIRCUIT OF Ip+ OR COM	GROUND-SIDE SHORT CIRCUIT OF Ip+ OR COM	
Ł	N	N	OTHER ANOMALY	OTHER ANOMALY	
L	N	L	OTHER ANOMALY	OTHER ANOMALY	
L	N	Н	OTHER ANOMALY	OTHER ANOMALY	
L	N	HH	OTHER ANOMALY	OTHER ANOMALY	
L	L	N	OTHER ANOMALY	OTHER ANOMALY	
L	L	L	OTHER ANOMALY	OTHER ANOMALY	
L	L	Н	OTHER ANOMALY OTHER ANOMALY		
L	L	HH	OTHER ANOMALY OTHER ANOMALY		
L	LL	N	OTHER ANOMALY OTHER ANOMALY		
L	LL	L	OTHER ANOMALY	OTHER ANOMALY	
L	LL	Н	OTHER ANOMALY	OTHER ANOMALY	
L	Ц	НН	BATTERY-SIDE SHORT CIRCUIT OF Vs+, Ip+, OR COM	BATTERY-SIDE SHORT CIRCUIT OF Vs+, Ip+, OR COM	
Н	N	N	OTHER ANOMALY	OTHER ANOMALY	
Н	N	Ĺ	OTHER ANOMALY	OTHER ANOMALY	
Н	N	Н	OTHER ANOMALY	OTHER ANOMALY	
Н	N	НН	OTHER ANOMALY	OTHER ANOMALY	
Н	L	N	OTHER ANOMALY	OTHER ANOMALY	
Н	L	L	OTHER ANOMALY	OTHER ANOMALY	
Н	L	Н	OTHER ANOMALY	OTHER ANOMALY	
Н	L	НН	OTHER ANOMALY	OTHER ANOMALY	
Н	LL	N	OTHER ANOMALY	OTHER ANOMALY	
Н	LL	L	OTHER ANOMALY	OTHER ANOMALY	
Н	LL	Н	OTHER ANOMALY	OTHER ANOMALY	
Н	LL	нн	Vs+ BREAKAGE OR GROUND-SIDE SHORT CIRCUIT OF Vs+	Vs+ BREAKAGE OR GROUND-SIDE SHORT CIRCUIT OF Vs+	

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FIG. 4





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e (a - b - - 1

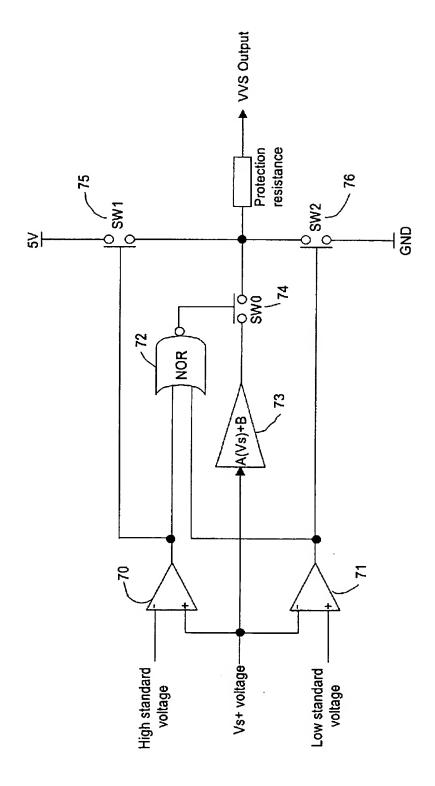


Fig. 6

the series of

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Fig. 7

		T	1	Т
	VVS Output	9	A(Vs) + B	Λ0
76	SW2	D# O	D#0	ő
75	SW1	ь́о	JJO	ЭĘ
74	SW0	Off	On	Off
72	NOR		Ŧ	_
11	Comparator 1 Comparator 2	7	_	Ι
02	Comparator 1	I	7	7
	Vs+ voltage	High	Normal	Low

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FIG. 8

